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Inverse multiplexing

J Duncanson, AC Inc - IEEE Communications Magazine, 1994 - [ieeexplore.ieee.org](#)

... **Inverse multiplexing** Duncanson, J. Ascend Commun. Inc.; This paper ... 25.0. Abstract

Inverse multiplexing offers an approach to high-speed data networking that is different than many other currently fashionable network technologies. It ...

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Adaptive inverse multiplexing for wide-area wireless networks

AC Snoeren - Global Telecommunications Conference, 1999. ... 1999 - [ieeexplore.ieee.org](#)

... Adaptive **inverse multiplexing** for wide-area wireless networks Snoeren, AC Lab. ... **Inverse multiplexing** is a standard application-transparent method used to provide higher end-to-end bandwidth by splitting traffic across multiple physical links, creating a single logical channel. ...

[Cited by 84](#) - [Related articles](#) - [BL Direct](#)

The past, present, and future of inverse multiplexing

PH Fredette - IEEE Communications Magazine, 1994 - [csa.com](#)

The past, present, and future of **inverse multiplexing**. PH ... 1994. **Inverse multiplexing** refers to the process of aggregating channels to allow applications greater freedom in selecting the optimum communication bandwidth and cost. ...

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Generalized inverse multiplexing of switched ATM connections

FM Chiussi, DA Khotimsky, S ... - ... 1998. GLOBECOM 98. ... 1998 - [ieeexplore.ieee.org](#)

... Generalized **inverse multiplexing** of switched ATM connections Chiussi, FM Khotimsky, DA Krishnan, S. Lucent Technol., AT&T Bell Labs., Holmdel, NJ ; This paper appears in: Global Telecommunications Conference, 1998. GLOBECOM 98. The Bridge to Global Integration. ...

[Cited by 60](#) - [Related articles](#) - [BL Direct](#)

[HTML] End-to-end inverse multiplexing for mobile hosts

[scie](#)

L Magalhaes, R Kravets - Journal of the Brazilian Computer Society, 2001 - [SciELO Brasil](#)

This paper presents a framework for the creation of transport protocols for mobile hosts that use multiple link layers simultaneously for the same connection. This abstraction provides an end-to-end transport layer channel between two applications that do not have to be ...

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[PDF] Performance of hashing-based schemes for internet load balancing

[psu.](#)

Z Cao, Z Wang, E Zegura - IEEE INFOCOM, 2000 - [Citeseer](#)

... II. R ELATED W ORK Load balancing has been used in telecommunication networks in the form of **inverse multiplexing** [4]. **Inverse multiplexing** allows service providers to offer wideband channels by combining multiple narrowband 56 kbps and 64 kbps trunks [5]. The load ...

[Cited by 192](#) - [Related articles](#) - [View as HTML](#) - [BL Direct](#) - [All 8 versions](#)

[CITATION] Inverse multiplexing: Tailor made for ATM

J Frimmel - Telephony, 1996

[Cited by 11](#) - [Related articles](#)

[PDF] Making parallel packet switches practical

[psu.](#)

S Iyer, N McKeown - IEEE INFOCOM, 2001 - [Citeseer](#)

... Keywords--packet-switch; output-queueing; **inverse-multiplexing**; load-balancing; Clos' network. ... The architecture as such is not novel and previous work [4][5][6][7][8] has described

load-balancing or "**inverse-multiplexing**" [9][10][11][12] systems. ...

Cited by 114 - [Related articles](#) - [View as HTML](#) - [BL Direct](#) - [All 14 versions](#)

ATM inverse muxing for easier access

RD Langdon - Data Communications, 1997 - csa.com

... The use of asynchronous transfer mode (ATM) **inverse multiplexing** for easier access in networks is described. ATM **inverse multiplexing** takes traffic from a relatively high-bandwidth connection and spread it across multiple lower-speed wide-area networks. ...

Cited by 9 - [Related articles](#)

[CITATION] Inverse Multiplexing for Wide-Area Wireless Networks

AC Snoeren - Proceedings of the IEEE Conference on Global ..., 1999

Cited by 7 - [Related articles](#)

[PDF] Stability analysis of a parallel packet switch with bufferless input ...

psu.

DA Khotimsky, S Krishnan - ICC 2001, 2001 - Citeseer

... Keywords— **Inverse Multiplexing**, Multipath Switching Systems, Parallel Switch architectures. I. I INTRODUCTION **Inverse multiplexing** has long been known as a tech- nique to aggregate link bandwidth in the end-to-end en- ...

Cited by 54 - [Related articles](#) - [View as HTML](#) - [All 5 versions](#)

[BOOK] Essentials of ATM networks and services

OC Ibe - 1997 - portal.acm.org

... These services include ATM LAN emulation, IP over ATM, multiprotocol over ATM, frame-based access services over ATM, audiovisual multimedia services over ATM, circuit emulation service, and **inverse multiplexing** over ATM. Most of these services are still being defined. ...

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[PDF] A packet resequencing protocol for fault-tolerant multipath transmission with ...

psu.

D Khotimsky - GLOBECOM-NEW YORK-, 1999 - Citeseer

... Abstract A multipath switching system serves as a useful abstraction for achieving bandwidth aggregation by means of switched connection **inverse multiplexing**. ... Keywords: **Inverse Multiplexing**, ATM Switches, Sequence control protocol. I. Introduction ...

Cited by 17 - [Related articles](#) - [View as HTML](#) - [BL Direct](#) - [All 7 versions](#)

Inverse multiplexing over ATM: broadband access for less

J van der Lande - COMPUT TECHNOL REV, 1998 - csa.com

Inverse multiplexing over ATM: broadband access for less. Justin ... 1998. **Inverse Multiplexing** over ATM (IMA) employs ubiquitous E1/T1 circuits to provide broadband network solutions more cost-effectively than other technologies. ...

Cited by 3 - [Related articles](#)

[PDF] Striping within the network subsystem

uccs

CBS Traw, JM Smith - IEEE Network, 1995 - cs.uccs.edu

... higher level framing to compensate for the skew between the stripes which can result in a misordering of ATM cells [5]. One effort toward standardizing a particular application of network striping is presented by rredette [7]. He calls network striping **Inverse Multiplexing** when it is ...

Cited by 59 - [Related articles](#) - [BL Direct](#) - [All 3 versions](#)

[CITATION] ... MPEG-2 coded TV signal over SDH network with inverse multiplexing ...

N Linta, M Mihailovic, D Vuletic - 1999 - TELFOR

Cited by 2 - [Related articles](#)

[CITATION] Inverse Multiplexing

J Duncans - IEEE Communications Magazine, 1994

Cited by 2 - [Related articles](#)

[CITATION] Inverse Multiplexing for ATM. Operation, Applications and Performance ...

M Aguilar, J García, M Postigo - ICATM, 1999

Cited by 2 - [Related articles](#)

[PDF] IP over DWDM

psu.

R Jain - Nortel Networks, November, 1999 - Citeseer

... u Clock Synchronization u Rate Multiplexing/Traffic Grooming u Rate Division/**Inverse multiplexing** u Fault Tolerance u Signal trace u Error Monitoring ... u Packet Switching Architecture u Protection schemes u **Inverse multiplexing** for higher speed pipes u QoS u Multicast Page 11. ...

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A study of the inverse multiplexing for ATM (IMA) protocol

O Isnard, JM Calmel, AL Beylot, G ... - ... Switching and Routing, ..., 2000 - ieeeexplore.ieee.org

... A study of the **inverse multiplexing** for ATM (IMA) protocol Isnard, O. Calmel, J.-M. Beylot, A.-L. Pujolle, G. Nortel Networks-Wireless Solutions, Yvelines; This paper appears in:

High Performance Switching and Routing, 2000. ATM 2000. ...

Cited by 1 - Related articles

[CITATION] Inverse multiplexing

E Edvardsen - TELEKTRONIKK, 1999 - TELEDIREKTORATET

Cited by 1 - Related articles - BL Direct

[CITATION] Guide to telecommunications transmission systems

AA Huurdeman - 1997 - Artech House Publishers

Cited by 9 - Related articles

[CITATION] Enterprise networking: fractional T1 to SONET, frame relay to BISDN

D Minoli - 1993 - Artech House Publishers

Cited by 10 - Related articles - Library Search

[PDF] On the speedup required for a multicast parallel packet switch

psu.

S Iyer, N McKeown - IEEE Communications Letters, 2001 - Citeseer

... speedup of . Keywords--Clos' network; **inverse-multiplexing**; parallel packet switch; load- balancing; multicasting. I. I INTRODUCTION All packet switches require memories that buffer packets during times of congestion. For ...

Cited by 17 - Related articles - View as HTML - BL Direct - All 13 versions

[PDF] Establishing wireless communications services via high-altitude ...

com

HAA PLATFORMS - IEEE Communications Magazine, 1997 - comsoc.org

... telephone network (PSTN). The return signal path toward the airborne station is similar, except for the **inverse multiplexing** operation in the mux and high-power amplification by the HPA. HAAP-BASED COMMUNICATIONS ...

Cited by 176 - Related articles - View as HTML - BL Direct - All 6 versions

IMA: technical foundations, application and performance analysis

M Postigo-Boix, J García-Haro, M Aguilar-Igartua - Computer Networks, 2001 - Elsevier

... E3 links. The technology to cover the gap between T1/E1 and T3/E3 bandwidth at a reasonable cost is known as **inverse multiplexing** for ATM (IMA). IMA ... work. 2. **Inverse multiplexing** fundamentals and network applications. In a ...

Cited by 5 - Related articles - All 4 versions

[PDF] A survey of active network research

psu.

DL Tennenhouse, JM Smith, WD Sincoskie, DJ ... - IEEE communications ..., 1997 - Citeseer

... Early prototype applications include: software scalable bandwidth based on a general mechanism for **inverse multiplexing**, ie, network striping; and support for an active packet model ("Switchlets"). Bell Communications Research ...

Cited by 1514 - Related articles - View as HTML - BL Direct - All 52 versions

Super-multichannel trans-selector systems for upgradable broadband networks

Y Takasaki, T Sekiguchi, M Sasagawa, T ... - ... , 1996. ICC 96, ..., 1996 - ieeeexplore.ieee.org

... It is shown that the combined use of **inverse multiplexing** and rate adaptation can play an important role in realizing very simple and economical super-multichannel trans-selectors: all signals are converted to have a unified rate and, as a consequence, multiplexing and ...

Cited by 4 - Related articles - BL Direct

[\[PDF\] Supporting applications in a mobile multihop radio environment using route ...](#) psu.
 N Gogate, SS Panwar - IEEE International Conference on ..., 1998 - Citeseer
 ... In general, traffic splitting could be done at any layer of the protocol stack, for example physical, data link, and network (eg **Inverse Multiplexing** is being standard- ized by ATM-PHY group in the ATM Forum). We will consider traffic splitting at the network layer and above. ...
[Cited by 15](#) - [Related articles](#) - [BL Direct](#) - [All 5 versions](#)

[\[PDF\] Blocking probabilities for inverse multiplexer in public switched digital ...](#) psu.
 KV Vu, A Nilsson - GLOBECOM-NEW YORK-, 1995 - Citeseer
 ... To meet the new requirements, network providers use a technique called **inverse multiplexing** which combines two or more independent switched digital channels into a single high bandwidth end-to-end connection. ... **2 Inverse Multiplexing**
[Cited by 1](#) - [Related articles](#) - [View as HTML](#) - [BL Direct](#) - [All 3 versions](#)

[An overview of Internet protocols](#)
 A O'Neill, RC Tatham, SF Carter, G Tsirtsis, AJ ... - BT Technology ..., 1998 - Springer
 ... the layer 2 tunnelling protocol (L2TP). Multi-link PPP provides an **inverse multiplexing** capability in which multiple serial links are combined by the MP stack to look like a single high-speed link. MP controls the choice of which ...
[Cited by 6](#) - [Related articles](#) - [BL Direct](#) - [All 4 versions](#)

[\[PDF\] Wireline broadband access networks](#) telier
 LA Ims - TELEKTRONIKK, 1999 - telenor.com
 ... 75 Teletronikk 2/3.1999 ing, and is described in more detail in [3]. The main motivation behind **inverse multiplexing** lies in the fact that it may be a rather inexpensive way to avoid the high civil works costs of fibreoptic cable installation in the primary access network in particular. ...
[Cited by 4](#) - [Related articles](#) - [View as HTML](#) - [BL Direct](#)

[Advanced frame recovery in switched connection inverse multiplexingfor ATM](#)
 FM Chiussi, DA Khotimsky, S ... - ATM, 1999. ICATM'99. ..., 1999 - ieeeexplore.ieee.org
 ... Abstract Switched connection **inverse multiplexing** for ATM (SCIMA) has been proposed as a low-overhead scheme for implementing an $N \times N$ switch with a port rate of kR using a $kN \times kN$ core switch (or $k N \times N$ switches) having a port rate of R . By splitting the traffic of a small ...
[Cited by 2](#) - [Related articles](#)

[\[PDF\] Analysis of a packet switch with memories running slower than the line rate](#) psu.
 S Iyer - 2000 - Citeseer
 ... Essen- tially, the packet-switch performs packet-by-packet load-balancing, or "**inverse-multiplexing**" over multiple ... balancing" and "**inverse-multiplexing**" systems [3][4] have been around for some time, and this architecture is a simple extension of these ideas. ...
[Cited by 119](#) - [Related articles](#) - [View as HTML](#) - [BL Direct](#) - [All 13 versions](#)

[Traffic performance of APON and SDH rings in a FTTCab configuration](#)
 D Goderis, I Van de Voorde - Proceedings of the European ..., 2000 - books.google.com
 ... The first one is called **Inverse Multiplexing** for ATM (IMAI [4], The second strategy is based on Integrated SDH, ATM (ISAI overlay networking [5]. IMA enables the transport of a high bitrale ATM cell stream onto a number of lower, rate physical links, eg El lines, or SDH VC, I2s. ...
[Cited by 2](#) - [Related articles](#)

[\[PDF\] High-speed digital optical processing in future networks](#) jstor
 D Cotter, JK Lucek - Philosophical Transactions: Mathematical, Physical ..., 2000 - jstor.org
 ... $2N + 2$, . . . , and so on). However, this would lead to a complex **inverse multiplexing** problem at the receiving end in order to identify and compensate for the different propagation times of each physical link. In the case where ...
[Cited by 4](#) - [Related articles](#) - [BL Direct](#) - [All 6 versions](#)

[A reliable and scalable striping protocol](#) psu.
 H Adiseshu, G Parulkar, G Varghese - ..., Architectures, and Protocols ..., 1996 - portal.acm.org
 ... lines. Thus channel striping, also known as load sharing or **inverse multiplexing**, is often used in computer networks. ... The ATM Forum is considering a standard for ATM cell strip- ing called AIM (**ATM Inverse Multiplexing**) basedon delay compen- sation. ...

[Cited by 147](#) - [Related articles](#) - [BL Direct](#) - [All 16 versions](#)

[PDF] Dynamic Link Striping: Breaking the WAN Bandwidth Barrier in Piconets

[hp.c](#)

P Sharma, S Lee, J Brassil, J Lopez ... - Proceedings of LAN/ ..., 2001 - fog.hpl.external.hp.com
... [6] T. Jessup, "Emerging Technology: Balancing Act: Designing Multi-Link WAN Services", Network Magazine, June 2000. <http://www.networkmagazine.com/article/NMG20000612S0008> [7] J. Ducanson, "Inverse Multiplexing". IEEE Communications Magazine, 32(4), April 1994

[Cited by 1](#) - [Related articles](#) - [View as HTML](#) - [All 3 versions](#)

Implementing inverse multiplexing for ATM

A Pires, M Semicond, O Kanata - ATM, 1999. ICATM'99. 1999 ..., 1999 - [ieeexplore.ieee.org](#)
... Implementing **inverse multiplexing** for ATM Pires, A. Mitel Semicond., Kanata, Ont.;
This paper appears in: ATM, 1999. ICATM '99. 1999 2nd International Conference
on Publication Date: 1999 On page(s): 340-345 Meeting ...

[All 2 versions](#)

Broadband over Inverse Multiplexed xDSL Modems

E Edvardsen - Lecture notes in computer science, 2000 - Springer
... **Inverse multiplexing** of xDSL systems is used to aggregate bandwidths in the range of 100 to 1000 Mb/s between nodes in the network. ... Keywords: **Inverse multiplexing**, ATM, xDSL, twisted pairs, FSAN, ITUNET 1 Background ...

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[HTML] End-to-end inverse multiplexing for mobile hosts

[scie](#)

I Luiz Magalhaes, R Kravets - J. Braz. Comp. Soc, 2001 - SciELO Brasil
This paper presents a framework for the creation of transport protocols for mobile hosts that use multiple link layers simultaneously for the same connection. This abstraction provides an end-to-end transport layer channel between two applications that do not have to be ...

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[CITATION] Inverse Multiplexing of IS95 Traffic for Video Transmission

M Salமானian - 1997 - Carleton University

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[CITATION] Inverse Multiplexing: Getting Started on the Road to ATM

J Reedy - TELECOMMUNICATIONS-NORWOOD-NORTH ..., 1995 - BPA INTERNATIONAL

[BL Direct](#)

Telemetry transmission using inverse multiplexing and asynchronous transfer ...

B Eslinger, J McCombe - INT TELEM CONF PROC, 1997 - csa.com
Telemetry transmission using **inverse multiplexing** and asynchronous transfer mode(ATM). ... The combination of ATM and **inverse multiplexing** allows telemetry data rates above 1.5 Megabits per second (Mbps) to be transmitted over multiple T1 (1.544 Mbps) lines. ...

[BL Direct](#)

[CITATION] ... MULTIPLEXING: TAILOR-MADE FOR ATM-Inverse multiplexing fills ...

J Frimmel - Telephony, 1996 - Chicago, USA: Chambers-McMeal ...

[PDF] The telco's goldmine—50 Mb/s to the general public over the local telephone ...

[cord](#)

E Edvardsen - Flexible Working - New Network Technologies, 1999 - cordis.lu
... The existing network is sub-divided into a small cell network, each covering an area with an approximate radius of 1 kilometre. **Inverse multiplexing** of xDSL systems is used to aggregate bandwidth in the range of 100 to 1000 Mb/s between nodes in the network. ...

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Remote Access Concepts and Techniques

P Southwick - Local area network handbook, 1999 - books.google.com
... This technique is generically called **inverse multiplexing** and can be performed in hardware as well as software. ... Remote Access Concepts and Techniques by most remote access devices, and it is by far the more common **inverse multiplexing** approach for remote access users. ...

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Promptus Commun. Inc.

PH Fredette - IEEE Communications Magazine, 1994 - [ieeexplore.ieee.org](#)

... The past, present, and future of **inverse multiplexing** Fredette, PH Promptus Commun. Inc.; ... Abstract **Inverse multiplexing** refers to the process of aggregating channels to allow applications greater freedom in selecting the optimum communication bandwidth and cost. ...

[CITATION] Framework for MPLS-Based Control of Optical SDH/SONET Networks

E Mannie, EV Sharma, I Metanoia - IEEE Network, 2001

[Related articles](#)

[CITATION] The multiplexer reference manual

G Held - 1992 - John Wiley & Sons

[CITATION] Data communication components: characteristics, operation, ...

G Held - 1979 - Hayden Book Co.

[All 2 versions](#)

[PDF] Experiments With Remote Visual Access & On-line Space Services

[psu.](#)

EA Kuijpers - EUROPEAN SPACE AGENCY-PUBLICATIONS-ESA ..., 1996 - CiteSeer

... teleoperation. The digital video data was generated by a Twyman-Green interferometer in the CPF. Using **inverse multiplexing** techniques, several ISDN lines were used in parallel for the remote operations project. This allowed ...

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Coding of digital imagery for transmission over multiple noisy channels

SS Channappayya, GP Abovsleman, ... - ... on Acoustics, Speech, ..., 2001 - [ieeexplore.ieee.org](#)

... of digital imagery over multiple noisy channels. The proposed scheme divides the image into smaller parts that are transmitted over the individual channels of an **inverse multiplexing** system. The division or splitting is done in ...

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[CITATION] NetNews: re-engineering the system

D Fowler - netWorker, 1998 - [portal.acm.org](#)

... year. A number of vendors are introducing new ATM switches, including Cisco, 3Com and Ascend. One of the reasons for this upsurge is the new **Inverse Multiplexing** over ATM (IMA) Interoperability Initiative, or I3. Using I3 ...

[CITATION] Communications Architecture for Distributed Systems, RJ Cyp

F Corr - IBM SYST J, 1978

Image coding for transmission over multiple noisy channels using punctured ...

SS Channappayya, GP Abovsleman, ... - Image Processing, ..., 2001 - [ieeexplore.ieee.org](#)

... of digital imagery over multiple noisy channels. The proposed scheme divides the image into smaller parts that are transmitted over the individual channels of an **inverse multiplexing** system. The division or splitting is done in ...

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Real broadband access over twisted-pair networks

E Edvardsen - Proceedings of SPIE, 1998 - [link.aip.org](#)

... **Inverse multiplexing** of xDSL systems is used to aggregate bandwidth in the range of 100 to 1000 Mb/s between nodes in the network. ... **Inverse multiplexing** of xDSL systems is used to aggregate bandwidth in the range of 100 to 1000 Mb/s between nodes in the network. ...

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Analysis of a packet switch with memories running slower than the line-rate

S Iyer, A Awadallah, N McKeown - IEEE INFOCOM 2000. ..., 2000 - [ieeexplore.ieee.org](#)

... multiplexed) before departing from the system. Essentially, the packet switch performs packet-by-packet load-balancing, or "**inverse-multiplexing**" over multiple independent

packet switches. Each lower-speed packet switch, operates ...

[Related articles](#)

SNMP management for ATM

GV Mouradian - Journal of Network and Systems Management, 1995 - Springer

... of services such as the Available Bit Rate (ABR) service. Recently, work has started in the ATM Forum Physical layer work group to define a SNMP MIB for ATM **Inverse Multiplexing**. In the IETF, at least two other work groups ...

[BL Direct](#)

[CITATION] ISCC 2000 Proceedings: Fifth IEEE Symposium on Computer and ...

S Tohmé, M Ulema - 2000 - IEEE

Network Architectures and Performance

DE Sharp - Network design: principles and applications, 2000 - books.google.com

... The three new ATM specifications approved by the ATM Forum in mid- 1997, Multiprotocol over ATM (MPOA), LAN Emulation (LANE), and **Inverse Multiplexing** over ATM (IMA), have opened additional networking areas to 426 Page 444. ...

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A cooperative approach to user mobility

psu.

R Kravets, C Carter, L Magalhaes - ACM SIGCOMM Computer ..., 2001 - portal.acm.org

... results in much higher throughput than TCP . The same **inverse multiplexing** techniques can be extended from a single host to the multiple external interfaces of a MOPED. The same restrictions apply, namely that throughput ...

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[PDF] Multi-Link Iridium Satellite Data Communication System

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MA Jabbar - 2001 - Citeseer

... Since the Iridium satellite system provides a low bandwidth that is not sufficient to support most of the data applications, **inverse multiplexing** technique is used to combine multiple satellite ... Multi-link point-to-point protocol is used to implement packet level **inverse multiplexing**. ...

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[PDF] IP/ATM integrated services over broadband access copper technologies

uc3r

A Azcorra, D Larrabelli, EJ Hernandez- ... - IEEE Communications ..., 1999 - it.uc3m.es

... deployment of fiber are also underway. ACTS project AC309 ITUNET [15] is evaluating a full-copper solution employing **inverse multiplexing** of ATM over VDSL, together with statistical multiplexing. ITUNET splits a geographical area ...

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[PDF] Service Profile-Aware Control Plane: A Multi-Instance Fixed Point ...

ku.e

VPN Granularity - 1999 - itfc.ku.edu

... 100 8.3.3 ITU and SPA-Dedicated control plane model 101 8.3.4 SPA-Shared- Static load partitioning and disabled **inverse multiplexing** (without NE, without IM).... 102 ...

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MMTP: multimedia multiplexing transport protocol

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L Magalhaes, R Kravets - ACM SIGCOMM Computer ..., 2001 - portal.acm.org

Page 1. MMTP - Multimedia Multiplexing Transport Protocol Luiz Magalhaes and Robin Kravets Department of Computer Science University of Illinois, Urbana-Champaign 1304 W Springfield Avenue Urbana, IL 61801 {magalhae,rhk}@cs.uiuc.edu ...

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RM White - 1998 - Citeseer

Page 1. Implementing Distributed Packet Fair Queueing in a Scalable Switch Architecture by Donpaul C. Stephens Submitted to the Department of Electrical and Computer Engineering in partial fulfillment of the requirements for the degree of ...

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An architecture for packet-striping protocols

psu.

A Hari, G Varghese, G Parulkar - ACM Transactions on Computer ..., 1999 - portal.acm.org
 ... The striping unit can be a bit or a byte or a bigger aggregation. Bit or byte interleaving is often done at the hardware level using devices known as inverse multiplex- ers. We discuss two hardware **inverse multiplexing** schemes in detail in the section on related work. ...
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[PDF] Approximation to the CLR in ATM switches with multiserver output discrete ...

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M Aguilar, F Barceló, P Iserte - IFIP Workshop TC6, ATM'98, 1998 - Citeseer
 Page 1. Sixth IFIP Workshop on Performance Modelling and Evaluation of ATM Networks, Ilkley, UK, 20-22 July, 1998. 63/1 Approximation to the CLR in ATM switches with multiserver output discrete queues and priority. Mónica ...
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Sandias network for SC97: Supporting visualization, distributed cluster computing, ...

TJ Pratt, LG Martinez, MO Vahle, TV Archuleta, VK ... - 1998 - osti.gov
 ... The current routing protocols allow for some parallelism to provide load balancing and redundancy across multiple physical paths. In the future, these routing protocols will also provide some **inverse multiplexing** capabilities. ...
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The integration of ISDN into a multi-functional visual communications network

R Beckwith - ISDN: applications in education and training, 1994 - books.google.com
 ... level of technology. Videoconferencing needs expensive and/or proprietary codecs and/or channel **inverse multiplexing** techniques. Another problem is that large image files still take a long time to transmit. Primary Rate ISDN ...
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[PDF] Systems Aspects of APON/VDSL Deployment

fie-e

L Verpooten, A Granger, A Telecom - IEEE Communications Magazine, 2000 - fie-epn.net
 ... Two techniques can be applied to improve statistical multiplexing on a SONET/SDH ring: **inverse multiplexing** for ATM (IMA) and inte- grated SDH-ATM (ISA) [8]. IMA enables the transport of a high-bit-rate ATM cell stream onto a multiple of lower-bit-rate SONET/SDH VCs (eg, n ...
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Convergence of IP Based and Optical Transport Networks

A Lason, A Manzalini, G Chatziliias, L Raptis, D ... - Lecture notes in ..., 2000 - Springer
 ... considered as to the bandwidth management of leased OChs. This special service might be offered when the **inverse multiplexing** of OTN, eg, OCh virtual concatenation is available. Different potential ways to set-up OCh services ...
[BL Direct](#) - [All 6 versions](#)

Interworking between SDH and OTN-based transport networks

A McGuire, AJ Flavin - BT Technology Journal, 2001 - Springer
 ... considered. The following sections elaborate on how OTN modem functionality can be achieved by means of a new mapping that utilises the SDH variant of **inverse multiplexing** — virtual concatenation. 4. Concatenation SDH ...
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[PDF] Lightwave Micromachines for Optical Networks: Vast Promise Amid Vaster ...

jayw

E Goldstein, L Lin, JA Walker - Optics & Photonics News, 2001 - jaywalkertc.com
 ... These systems provision and mesh-restore wavelengths at a granularity of 155 Mb/s to 2.5 Gb/s. They also provision and mesh-restore 10-Gb/s wavelengths via **inverse multiplexing** down to the basic switch rate, with the capability of grooming such sub-rate signals within a ...
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Routing in Packet-Switched Networks Using Path-Finding Algorithms

S Murthy - 1996 - Storming Media
 Page 1. University of California Santa Cruz Routing in Packet-Switched Networks Using Path-Finding Algorithms A dissertation submitted in partial satisfaction of the requirements for the degree of Doctor of Philosophy in Computer Engineering by Shree Murthy September 1996 ...

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... Several alternative solutions to pure ATM, such as ATM **inverse multiplexing**, confirm for the short term an evolution toward "low-bit-rate ATM." Thus, access rates going from 2 Mb/s (1.54 Mb/s) to 34 Mb/s (45 Mb/s) in Europe (and North America) should be sufficient in most ...

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[PDF] multiserver output discrete queues and priority", IFIP Workshop TC6, ATM'98 ... [cesc:](#)

M Inversos, EP de Pérdida - Communications, 1997 - [tdr.cesca.es](#)

... [AGU99a] M. Aguilar-Igartua, J. García-Haro, M. Postigo-Boix, "**Inverse Multiplexing** for ATM. Operation, Applications and performance Evaluation for the Cell Loss Ratio", 2 nd ... [ATM97] The ATM Forum Technical Committee, "**Inverse Multiplexing** for ATM (IMA) ...

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The Pine Ridge Indian Reservation/Mayo Clinic/NASA Telemedicine Project: A ...

MA Trapp, M Clinic - Telemedicine Journal, 1995 - [liebertonline.com](#)

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... tunnelling protocol (L2TP)(see Fig. 11.4). Multi-link PPP provides an **inverse multiplexing** capability in which multiple serial links are combined by the MP stack to look like a single high- speed link. MP controls the choice of which ...

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IEEE inFocom'95

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... These included technology areas such as, OS Bypass, Dense Wavelength Division Multiplexing (DWDM), IP switching and routing, Optical Amplifiers, **Inverse Multiplexing** of ATM, data encryption, and data compression; standards bodies activities in the ATM Forum and the ...

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DG Andersen, H Balakrishnan, MF Kaashoek, R ... - Proceedings of the ..., 2001 - Citeseer

... Discovery. In Proc. Usenix Symposium on Internet Technologies and Systems (USITS '97) (Monterey, CA, December 1997). [17] S NOEREN, AC Adaptive **inverse multiplexing** for wide- area wireless networks. In Proc. IEEE ...

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... one composite high-speed port. This concept is the opposite of a conventional multiplexer, and is termed "**Inverse Multiplexing**". Figure 6 shows the configuration which was used to test this concept. Two RAD IMX-6L Inverse ...

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M Martinello, ES Silva - Journal of the Brazilian Computer Society, 2001 - SciELO Brasil

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[HTML] [A testbed for network performance evaluation and its application to ...](#)

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I Magnos Martinello, ES e Silva - J. Braz. Comp. Soc, 2001 - SciELO Brasil

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[Computer diagnosis of electrocardiograms. I. Equipment](#)

DC Alexander, D Wortzman - Computers and Biomedical Research, 1968 - Elsevier

... either output. A sample and hold circuit was added to the ALEXANDER AND WORTZMAN 363 digital-to-analog converter in the basic 9X 12 converter to provide the **inverse multiplexing** function required. APPENDIX. ANALYSIS ...

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[HTML] [Engineering Approach to Computer Networking, An: ATM Networks, the ...](#)

awp

S Code - Dimensions, 2001 - awprofessional.com

... 36-50. A survey of packet-switching technology. [Duncanson 95] J. Duncanson. The Technology of **Inverse Multiplexing**. Available from HTTP://WWW.ASCEND.COM.AU/TECHDOCS/ARTICLES/IMUX/IMUX.HTML, 1995. [Fraser 83] AG Fraser. ...

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